

What is claimed is:

1. An end cap for a miniature electric motor, the end cap having a body of insulating material and a cover of conductive material, wherein the body supports two brushes for making sliding contact with a commutator, two motor terminals for connecting a power supply to the brushes and a chip type EMI device having at least three terminals including: two input terminals, respectively connected to the two motor terminals; and at least one earth terminal electrically connected to the conductive cover.
- 10 2. The end cap of Claim 1, wherein the chip type EMI device has two earth terminals which are connected to the conductive cover.
- 15 3. The end cap of Claim 1, wherein the or each earth terminal of the EMI device is connected to the conductive cover by a conductive spring.
4. The end cap of Claim 3, wherein the EMI device has two earth terminals and the conductive spring is 'W'-shaped.
- 20 5. The end cap of Claim 3, wherein the cover has an opening in which the EMI device is located and the conductive spring engages an edge of the opening to establish electrical contact between the or each earth terminal of the EMI device and the cover.
- 25 6. The end cap of Claim 3, wherein the device is located in a compartment integrally formed in the body and is retained in the compartment by the conductive spring.
- 30 7. The end cap of Claim 1, wherein the body has an integrally formed compartment in which the EMI device is located.
8. The end cap of Claim 1, wherein the EMI device is held between a pair of resiliently deformed electrically conductive connectors.
- 35 9. The end cap of Claim 8, wherein the connectors are spring connectors which make resilient contact with the input terminals of the EMI device.

10. The end cap of Claim 8, wherein the brushes comprise resiliently flexible conductive strips connected to relatively rigid brush holders and the spring connectors are electrically connected to the motor terminals by way of the brush holders.

5 11. The end cap of Claim 10, wherein the brushes each have a free end divided into a plurality of fingers adapted to make sliding contact with the commutator.

12. The end cap of Claim 10, wherein the brushes include a carbon based body fitted to an end of the strip for making sliding contact with the commutator.

10 13. The end cap of Claim 1, wherein the EMI device is mounted on the body and is accessible from an outer surface of the end cap.

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